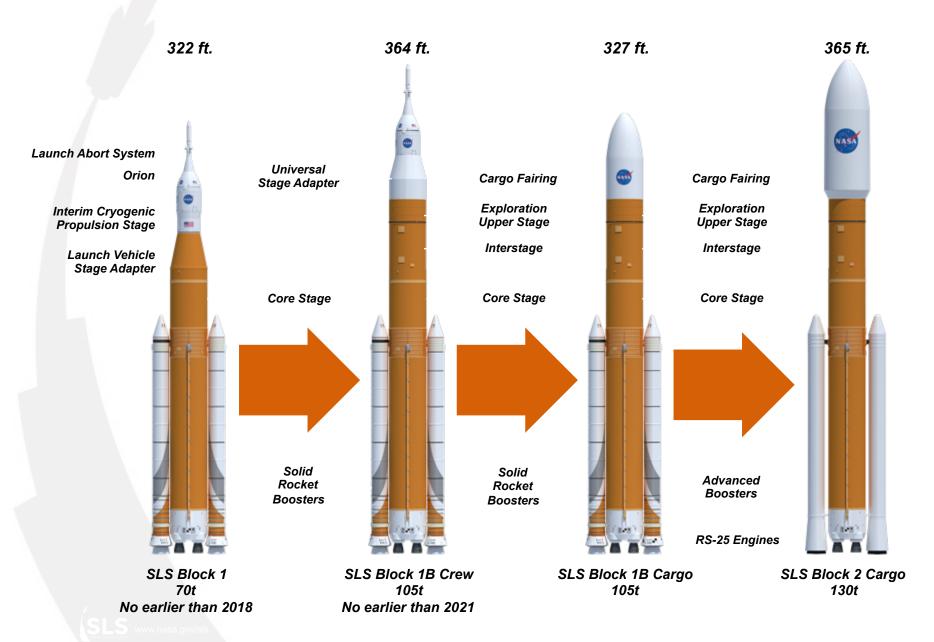






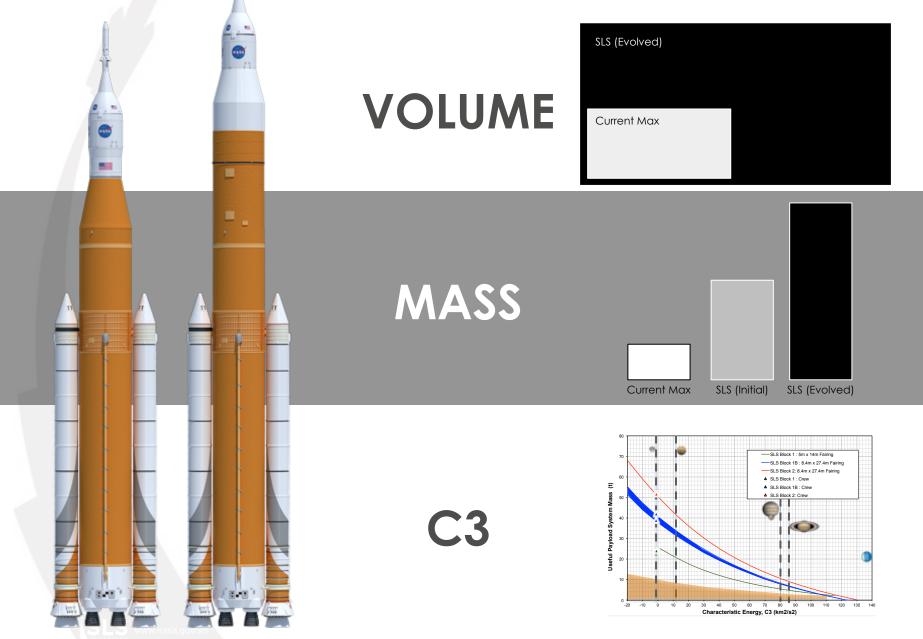
AN EVOLUTIONARY CAPABILITY



4

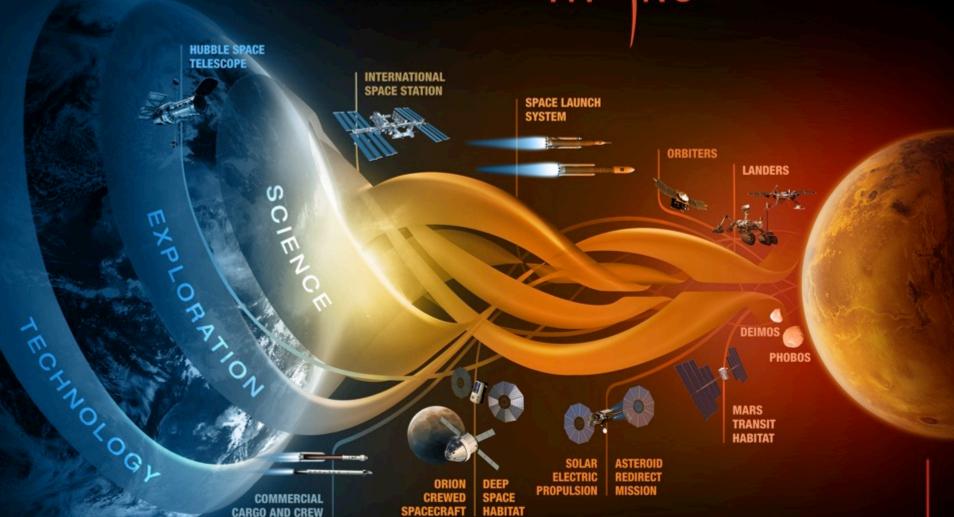


BENEFITS OF SLS



JOURNEY TO MARS





MISSIONS: 6-12 MONTHS RETURN: HOURS

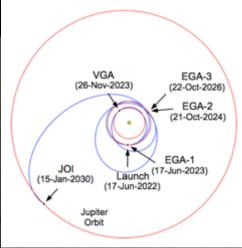
EARTH RELIANT

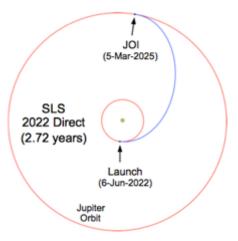
MISSIONS: 1-12 MONTHS RETURN: DAYS MISSIONS: 2–3 YEARS RETURN: MONTHS EARTH INDEPENDENT

PROVING GROUND -

0205_SLS 101.7







SLS VOLUME UTILIZATION 2.4 m 6.6 m 8 m 11 m 12.5 m 16 m Hubble James Webb (monolithic) (segmented) (segmented) (segmented) (segmented) (monolithic) Architectures Enabled by SLS

SLS MASS UTILIZATION

SLS SMALLSAT UTILIZATION

Along with Orion, the first SLS launch will carry 13 6U smallsats, representing multiple disciplines and partners. The smallsats will be deployed from the Orion Stage Adapter.

MOON

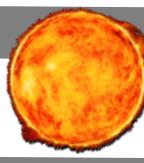
- Lunar Flashlight (NASA)
 Lunar IceCube (Morehead
 State University)
- LunaH-Map (Arizona State University)
- Omotenashi (JAXA)

ASTEROID

NEA Scout (NASA)

SUN

 CuSP (Southwest Research Institute)



EARTH

- EQUULEUS (JAXA)
- Skyfire (Lockheed Martin

AND BEYOND

- Biosentinel (NASA)
- ArgoMoon (ESA/ASI)
- Three Centennial Challenge Winners (TBD)



THE ADVENTURE BEGINS NOW.



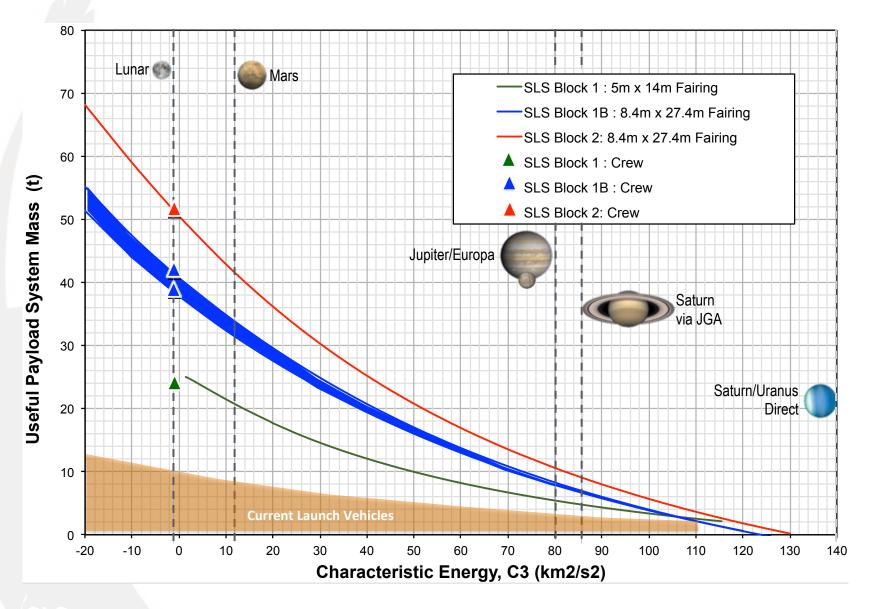
SLS

google.com/+nasa

youtube.com/nasa

#JOURNEYTOMARS

SLS MISSION CAPTURE



SLS www.nasa.gov/sls 0034 VB Symp

PAYLOAD ACCOMODATIONS

FAIRING AVAILABILITY

- Potential opportunities exist for launch of a 5m fairing on the Block 1 configuration of SLS
- Universal Stage Adapter offers opportunity for co-manifested payloads with Orion spacecraft or near-term 8.4-meter lower-height accommodations
- Universal Stage Adapter accommodations early as soon as second flight of SLS; 8.4- and 10-meter fairings available in the mid- and late-2020s. respectively



5m fairing w/ science payload



Science Missions



Orion with shortduration hab module



8m fairing with large aperture telescope



10m fairing w/notional Mars payload